DETAILED ESTIMATE

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements To Roads and Drains at Dasarahally and Surrounding Area Roads in Ward No 06 Thanisandra

								Estimation Cost.Rs	**10000000.00**
Sl No	**Description of work**		**Mesurement**				**Qty**	**Rate**	**Amount**
		Unit	**No.**	**L**	**B**	**D**			
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80								
	New Drain								
	Chowrappa Reddy Layout								
	1st Cross Road	Cum	1	94.00	1.05	1.05	103.64		
	2nd Cross Road	Cum	1	81.00	1.05	1.05	89.30		
	3rd Cross Road	Cum	1	77.00	1.05	1.05	84.89		
	4th Cross Road	Cum	1	83.00	1.05	1.05	91.51		
	Cross Road	Cum	1	187.00	1.05	1.05	206.17		
	Maruthi Layout								
	1st Main 6th Cross Road	Cum	1	41.00	1.20	1.05	51.66		
	Maruthi Layout								
	1st Main 3rd Cross Cross Road	Cum	1	51.00	1.05	1.05	56.23		
	Cross Road	Cum	1	53.00	1.05	1.05	58.43		
	Cross Road	Cum	1	30.00	1.05	1.05	33.08		
	Basic rate	130							
	Area weightage 6%	7.8							
	5Km lead & Lift= 57+(2*1.28*5)	69.8							
	Sub Total	**207.6**							
	Total						**774.90**	**207.60**	**160869.24**
2	KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No. 2100 Pg no:222 Item no:27.18								
	New Drain								
	Chowrappa Reddy Layout								
	1st Cross Road	Cum	1	94.00	1.05	0.15	14.81		
	2nd Cross Road	Cum	1	81.00	1.05	0.15	12.76		
	3rd Cross Road	Cum	1	77.00	1.05	0.15	12.13		
	4th Cross Road	Cum	1	83.00	1.05	0.15	13.07		
	Cross Road	Cum	1	187.00	1.05	0.15	29.45		
	Maruthi Layout								
	1st Main 6th Cross Road	Cum	1	41.00	1.20	0.15	7.38		
	Maruthi Layout								
	1st Main 3rd Cross Cross Road	Cum	1	51.00	1.05	0.15	8.03		
	Cross Road	Cum	1	53.00	1.05	0.15	8.35		
	Cross Road	Cum	1	30.00	1.05	0.15	4.73		
	For CC Road								

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Chowrappa Reddy Layout								
	1st Cross Road	Cum	1	94.00	4.90	0.15	69.09		
	2nd Cross Road	Cum	1	81.00	4.70	0.15	57.11		
	3rd Cross Road	Cum	1	77.00	5.00	0.15	57.75		
	4th Cross Road	Cum	1	83.00	5.00	0.15	62.25		
	Maruthi Layout								
	1st Main 3rd Cross Cross Road	Cum	1	51.00	4.80	0.15	36.72		
	Cross Road	Cum	1	53.00	4.30	0.15	34.19		
	Cross Road	Cum	1	30.00	4.80	0.15	21.60		
	Basic rate	5115							
	Area weightage 6%	306.9							
	Sub Total	5421.9							
	Total						**449.40**	**5421.90**	**2436601.86**
3	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no								
	New Drain								
	Bottom Raft								
	Chowrappa Reddy Layout								
	1st Cross Road	Cum	1	94.00	1.05	0.15	14.81		
	2nd Cross Road	Cum	1	81.00	1.05	0.15	12.76		
	3rd Cross Road	Cum	1	77.00	1.05	0.15	12.13		
	4th Cross Road	Cum	1	83.00	1.05	0.15	13.07		
	Cross Road	Cum	1	187.00	1.05	0.15	29.45		
	Maruthi Layout								
	1st Main 6th Cross Road	Cum	1	41.00	1.20	0.15	7.38		
	Maruthi Layout								
	1st Main 3rd Cross Cross Road	Cum	1	51.00	1.05	0.15	8.03		
	Cross Road	Cum	1	53.00	1.05	0.15	8.35		
	Cross Road	Cum	1	30.00	1.05	0.15	4.73		
	Side Walls								
	Chowrappa Reddy Layout								
	1st Cross Road	Cum	2	94.00	0.15	0.75	21.15		
	2nd Cross Road	Cum	2	81.00	0.15	0.75	18.23		
	3rd Cross Road	Cum	2	77.00	0.15	0.75	17.33		
	4th Cross Road	Cum	2	83.00	0.15	0.75	18.68		
	Cross Road	Cum	2	187.00	0.15	0.75	42.08		
	Maruthi Layout								
	1st Main 6th Cross Road	Cum	2	41.00	0.15	0.75	9.23		
	Maruthi Layout								
	1st Main 3rd Cross Cross Road	Cum	2	51.00	0.15	0.75	11.48		
	Cross Road	Cum	2	53.00	0.15	0.75	11.93		
	Cross Road	Cum	2	30.00	0.15	0.75	6.75		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
						Sub Total	267.53		
	Basic rate	6670							
	Area weightage 6%	400.2							
	Sub Total	7070.2							
	Total						267.53	7070.20	1891455.26
4	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
	For Drain	Cum	From item no.7				267.53		
		kg	Steel assumed 60Kg/Cum of Concrete				16051.50		
		tonne					16.05		
	Basic rate	61365							
	Area weightage 6%	3681.9							
	Sub Total	65046.9							
	Total						16.05	65046.90	1044100.32
5	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	New Drain								
	Chowrappa Reddy Layout								
	1st Cross Road	Sqm	1	94.00	0.75		70.50		
	2nd Cross Road	Sqm	1	81.00	0.75		60.75		
	3rd Cross Road	Sqm	1	77.00	0.75		57.75		
	4th Cross Road	Sqm	1	83.00	0.75		62.25		
	Cross Road	Sqm	1	187.00	0.75		140.25		
	Maruthi Layout								
	1st Main 6th Cross Road	Sqm	1	41.00	0.90		36.90		
	Maruthi Layout								
	1st Main 3rd Cross Cross Road	Sqm	1	51.00	0.75		38.25		
	Cross Road	Sqm	1	53.00	0.75		39.75		
	Cross Road	Sqm	1	30.00	0.75		22.50		
	Data Rate	2337							
	Total						528.90	2337.00	1236039.30
6	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3(P.No.146, I.No.19.56)								
	Old Road								
	Chowrappa Reddy Layout								
	1st Cross Road	Sqm	1	94.00	4.90		460.60		
	3rd Cross Road	Sqm	1	77.00	5.00		385.00		
	4th Cross Road	Sqm	1	83.00	5.00		415.00		
	Basic rate	39							
	Area weightage 6%	2.34							
	Sub Total	41.34							

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Total						**1260.60**	**41.34**	**52113.20**
7	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)								
	For New CC Road								
	Chowrappa Reddy Layout								
	2nd Cross Road	Cum	1	81.00	4.70	0.45	171.32		
	Maruthi Layout								
	1st Main 3rd Cross Cross	Cum	1	51.00	4.80	0.45	110.16		
	Cross Road	Cum	1	53.00	4.30	0.45	102.56		
	Cross Road	Cum	1	30.00	4.80	0.45	64.80		
	Basic rate	41							
	Area weightage 6%	2.46							
	5Km lead= (2*1.28*5)	12.8							
	Sub Total	**56.26**							
	Total						**448.83**	**56.26**	**25251.18**
8	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)								
	Chowrappa Reddy Layout								
	1st Cross Road	Sqm	1	94.00	4.90		460.60		
	2nd Cross Road	Sqm	1	81.00	4.70		380.70		
	3rd Cross Road	Sqm	1	77.00	5.00		385.00		
	4th Cross Road	Sqm	1	83.00	5.00		415.00		
	Maruthi Layout								
	1st Main 3rd Cross Cross	Sqm	1	51.00	4.80		244.80		
	Cross Road	Sqm	1	53.00	4.30		227.90		
	Cross Road	Sqm	1	30.00	4.80		144.00		
	Basic rate	6							
	Area weightage 6%	0.36							
	Sub Total	6.36							
	Total						**2258.00**	**6.36**	**14360.88**
9	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	New Road								
	Chowrappa Reddy Layout								
	2nd Cross Road	Cum	1	81.00	4.70	0.15	57.11		
	Maruthi Layout								
	1st Main 3rd Cross Cross	Cum	1	51.00	4.80	0.15	36.72		
	Cross Road	Cum	1	53.00	4.30	0.15	34.19		
	Cross Road	Cum	1	30.00	4.80	0.15	21.60		
	Basic rate	1882							
	Area weightage 6%	112.92							

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Sub Total	1994.92							
	Total						**149.61**	**1994.92**	**298459.98**
10	Cement concrete pavement.Construction of un-reinforced plain cement concrete for pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008.mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire charges of machineries,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1								
	Chowrappa Reddy Layout								
	1st Cross Road	Cum	1	94.00	4.90	0.15	69.09		
	2nd Cross Road	Cum	1	81.00	4.70	0.15	57.11		
	3rd Cross Road	Cum	1	77.00	5	0.15	57.75		
	4th Cross Road	Cum	1	83.00	5.00	0.15	62.25		
	Maruthi Layout								
	1st Main 3rd Cross Cross Road	Cum	1	51.00	4.80	0.15	36.72		
	Cross Road	Cum	1	53.00	4.30	0.15	34.19		
	Cross Road	Cum	1	30.00	4.80	0.15	21.60		
	Basic rate	4916							
	Area weightage 6%	294.96							
	sub Total	**5210.96**							
	Total						**338.70**	**5210.96**	**1764952.15**
								Grand Total	**8924203.36**
								GST Charges (12% of estimated cost)	**1070904.40**
								Miscellenious and rounding	**4892.23**
								Total Amount	**10000000.00**
								RUPEES ONE CRORE ONLY	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

ADMINISTRATIVE APPROVAL
Accorded For Rs. 100.00 Lakhs only
Head of A/c. P3075
Div. Ref. No. 31/20-21 Date 25/8/2020

AE 25/08

EE(BTP) 25/8

Sanctioned for Rs. 100.00 LAKHS
Rupees HONDRED LAKH ONLY
Under P3705
Job Code No. 006-2-000010
Registered as SE(Y)/TS/ 11 / 2021 subject to conditions contained in enclosed memo No. 11 / 2020-21 Dated: 26/8/2020

SE(Yelahanka)